Acknowledgments

The Pacific Northwest National Laboratory programs described in this report, including activities associated with the production of this document, were managed by the Public Safety and Resource Protection Program office under the direction of R. W. Bryce. Environmental samples were collected for Pacific Northwest National Laboratory by Senior Radiation Control Technologists J. M. Ferritto, L. L. Belt, and T. R. Sapp. The sample collection task leader was A. T. Cooper, Jr. Assistance in the field was provided by S. F. Conley.

The authors appreciate the reviews by K. R. Price and R. H. Gray (Pacific Northwest National Laboratory) and D. M. Hamby (School of Public Health, University of Michigan).

The Near-Facility Environmental Monitoring Program described in this report was managed by J. J. Dorian (Waste Management Federal Services, Inc., Northwest Operations). Near-facility environmental sampling and surveys were conducted by the Site Surveillance Radiological Control Group: R. L. Bumgarner, D. P. Ellingson, R. Olveda, and J. M. Swindoll, managed by R. A. Schieffer with the support of H. A. Besel. Bechtel Hanford, Inc. near-facility waste site surveys were conducted by Thermal Hanford Inc.

Groups and organizations participating in the effluent monitoring program conducted by Waste Management Federal Services, Inc. included radiological control technicians and managers, facility operators, facility environmental engineers, environmental compliance officers and scientists, process analytical laboratories, ventilation balance, and field maintenance. Individuals in these organizations collected and analyzed samples, maintained monitoring and sampling equipment, measured stack flow rates, ensured that facility operations adhered to environmental regulations, and ensured that the effluent data reported were accurate. The Pacific Northwest National Laboratory radioactive airborne effluent data were provided by E. G. Damberg and M. J. Sula. Quantities of nonradioactive materials discharged to the atmosphere were provided by R. E. Johnson (Waste Management Federal Services of Hanford, Inc.) and J. G. Woolard (Bechtel Hanford, Inc.). The Comprehensive Environmental Response, Compensation, and Liability Act and

Washington Administrative Code reportable spill data were provided by J. R. Culmer (Fluor Daniel Hanford, Inc.), S. J. Ingle (CH2M Hill Hanford, Inc. for Bechtel Hanford, Inc.) and H. T. Tilden II (Pacific Northwest National Laboratory).

Quantities of solid, liquid, and hazardous wastes generated and shipped were provided by D. L. Hagel (Waste Management Federal Services of Hanford, Inc.). Quantities of radioactive solid wastes stored and disposed of were provided by F. M. Coony (Waste Management Federal Services of Hanford, Inc.). The chemical inventory data were provided by D. E. Zaloudek (Waste Management Federal Services of Hanford, Inc.).

The report was prepared by Pacific Northwest National Laboratory staff: B. V. Johnston, editor; K. R. Neiderhiser, text processor. Graphics were prepared by D. L. Liddell (Lockheed Martin Services, Inc.) and J. P. McDonald, C. A. Newbill, D. C. Lanigan, J. T. Rieger, and R. K. Zufelt (Pacific Northwest National Laboratory). D. E. Brunson (Lockheed Martin Services, Inc.) designed and produced the cover. This report was produced using Adobe® PageMaker and formatted for the Internet by Pacific Northwest National Laboratory's Electronic Communications Section.

Community-operated environmental surveillance stations were managed by local teachers who were responsible for collecting the samples and maintaining the stations. The managers and alternate managers for each station included the following:

Leslie Groves Park, Richland: C. A. Wagner, Manager, and D. R. Johns, Alternate Manager

Basin City Elementary School, Basin City: C. L. Stevenson, Manager, and K. McEachen, Alternate Manager

Edwin Markham Elementary School, North Franklin County: M. P. Madison, Manager, and K. A. Thomas, Alternate Manager

Kennewick: T. Droppo, Manager, and C. Zwiener-Thomas, Alternate Manager

Kiona-Benton High School, Benton City: A. J. Williamson, Manager, and K. Jones, Alternate Manager.

Mattawa: D. Weberling, Manager, and B. Whitehouse, Alternate Manager

Othello: J. Oord, Manager, and B. Taylor, Alternate Manager

Columbia Basin College, Pasco: L. DeWitt, Manager, and J. O'Neill, Alternate Manager

Heritage College, Toppenish: D. F. Brown, Manager, and R. A. Landvoy, Alternate Manager.